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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/629,721	07/30/2003	Kun-Ho Cho	1293.1763	6835
21171	7590 10/05/2004		EXAMINER	
STAAS & HALSEY LLP			DOWLING, WILLIAM C	
SUITE 700 1201 NEW YO	ORK AVENUE, N.W.		ART UNIT	PAPER NUMBER
	N, DC 20005		2851	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			AL
	Application No.	Applicant(s)	
Office Action Comments	10/629,721	CHO ET AL.	
Office Action Summary	Examiner	Art Unit	
	William C. Dowling	2851	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maximum date of the provision of the provision of the maximum date of the provision of the maximum date of the provision of the p	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on 30	<u> July 2003</u> .		
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.		
3) Since this application is in condition for allo	wance except for formal matte	rs, prosecution as to the merits i	S
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims	• .		
4) Claim(s) 1-23 is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are without	drawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) 1.2 and 5-21 is/are rejected.			
7) Claim(s) 3,4,22 and 23 is/are objected to. 8) Claim(s) are subject to restriction an	d/or election requirement		
,	a/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam		., , , , , , , , , , , , , , , , , , ,	
10)⊠ The drawing(s) filed on is/are: a)□ a			
Applicant may not request that any objection to a Replacement drawing sheet(s) including the cor			(d)
11) The oath or declaration is objected to by the	•	· ·	,α).
		· · · · · · · · · · · · · · · · · · ·	
Priority under 35 U.S.C. § 119		4484) (1) (2)	
12) △ Acknowledgment is made of a claim for fore	ign phority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority docum	ents have been received		
2. Certified copies of the priority docum		polication No	
3. Copies of the certified copies of the p			
application from the International Bur	-	·	
* See the attached detailed Office action for a	list of the certified copies not	eceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. 		/Mail Date formal Patent Application (PTO-152)	
Paper No(s)/Mail Date 22704.	6) Other:	,	

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the color separation system of Claim 16 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the

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applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 5-14, 20-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5-14 are indefinite because there is no proper antecedent for the limitation of the ring shaped prism array being rotatable and therefore the language "after the ring shaped prism array rotates" is unsupported by the preceding claim language.

Claims 20-21 have no antecedent for "the beam steering device" in Claim 2.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-2, 15, 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyashita.

Miyashita disclose an optical arrangement in figure 8 comprising:

a light source (1);

an image forming device (2) formed of a liquid crystal panel;

a pixel moving optical system (1) formed of a prism array for increasing a number of pixels;

a projection lens (5) for projecting the deflected lights.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 15-16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miyashita.

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Miyashita discloses the invention substantially as claimed but does not specify the use of a prism in a multicolor separation system or the use of a relay lens.

It is well known to use prisms or mirrors as color separation means and as such it would have been obvious to modify the device of Miyashita by the substitution of a color separation system including a prism because such systems would function the same as ones with mirrors. Similarly, the use of relay lenses is deemed old and known and would have been an obvious modification in order to improve illumination light.

Allowable Subject Matter

8. Claims 3-4, 22-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 5-14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-TUES, THURS-FRI.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

William C. Dowling Primary Examiner Art Unit 2851

wcd